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SATANI MASUO

(54) PREPARATION OF NONINFECTIOUS MATERIAL CONTAINING ANTIGEN OR ANTIBODY OF VIRUS

(57)Abstract:

PURPOSE: To treat or prevent a disease by injecting the liquid obtd. by filtering blood plasma or cell culture supernatant contg. virus by porous hollow fibers of a hydrophilic high polymer having a specific structure.

CONSTITUTION: The blood plasma or cell culture supernatant which is positive in the antigen or antibody of virus is prepd. by filtering the same with the porous hollow fibers constituted of a specific pore structure and specific high- polymer base material. The high-polymer base material is regenerated cellulose, polyvinyl alcohol, etc., which are hydrophilic polymers. The pore structure is ≥10μm in the film thickness (indicated by d, μm unit) of the hollow fibers and the average pore size (indicated by μm unit) by a water filtration rate method satisfies all of ≤ 1.5 times the diameter of the virus to be removed, ≤0.2μm, and ≤(0.004×d) μm and ≥0.01μm. The intra-surface porosity thereof is ≤0.5 and the pore structure has ≥10 layers of layer structures in the film thickness direction. The film permeability of the antigen or antibody is thereby made into ≥30% and the permeability of the virus into ≤0.01%. The treatment and prevention and thus enabled.

LEGAL STATUS

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AB - J02161954 Non-infectious substances contg. viral antigen or antibody are prepd. by (1) sepn. and removal of blood corpuscles or cell components from viral antigen-or antibody-positive blood or suspensions. (2) filtration of the obtd. plasma or cell culture supernatant through a porous hollow fibre comprising hydrophilic polymers of layered structure having a membrane thickness of at least 10 micron a porous dia. is 0.01-0.2 micron m and upto 0.004xd microns by water filtration rate method. The dia. is less than 1.5 times compared with the virus. The void content under the surface is upto 0.5, and it has at least 10 layers in the direction of membrane thickness.
- The virus may be HIV and the plasma for or after filtration may comprise mixed plasma from several human subjects, and the porous hollow fibre used for removal of the virus in the plasma may comprise cellulose regenerated by copper ammonia method. The blood may be HBs antigen- and HBs antibody-positive or HBe antigen- and HBe antibody-positive.
- USE/ADVANTAGE - Hollow fibre has high inhibition ratio against virus, small adsorbability for proteins, and large permeability for plasma proteins and antibodies. Virus-free plasma or suspensions contg. antigen or antibody are obtd. By returning the plasma or suspensions to patients with viral diseases or by the injection to healthy human subjects, the treatment and prevention of these diseases is effected. (6pp Dwg.No.0/0)
DRL - 1327-U 0502-U
IW - NON INFECT SUBSTANCE CONTAIN VIRUS ANTIGEN ANTIBODY PREPARATION FILTER PLASMA CELL CULTURE SUPERNATANT THROUGH POROUS HOLLOW FIBRE
IKW - NON INFECT SUBSTANCE CONTAIN VIRUS ANTIGEN ANTIBODY PREPARATION FILTER PLASMA CELL CULTURE SUPERNATANT THROUGH POROUS HOLLOW FIBRE
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